

Title (en)
VIRTUAL CIRCUIT-BASED DATA PACKET PROCESSING METHOD AND FORWARDING TABLE ENTRY CONSTRUCTION METHOD

Title (de)
VERFAHREN ZUR VERARBEITUNG VON DATENPAKETEN AUF DER BASIS VON VIRTUELLEN LEITUNGEN UND VERFAHREN ZUR KONSTRUKTION VON WEITERLEITUNGSTABELLENEINTRÄGEN

Title (fr)
PROCÉDÉ DE TRAITEMENT DE PAQUETS DE DONNÉES BASÉ SUR UN CIRCUIT VIRTUEL ET PROCÉDÉ DE CONSTRUCTION D'ENTRÉES DE TABLE DE TRANSFERT

Publication
EP 4087197 A4 20230517 (EN)

Application
EP 20910954 A 20201103

Priority
• CN 201911419401 A 20191231
• CN 2020126168 W 20201103

Abstract (en)
[origin: EP4087197A1] Provided is a virtual circuit-based data packet processing method, which includes that: identification information of a next-hop Provider Edge (PE) node of a routing packet and identification information of an Original PE (OPE) node of the routing packet are determined according to the routing packet corresponding to a Virtual Private Network (VPN) service instance; a context virtual circuit is determined, wherein nodes at both ends of the context virtual circuit are respectively the current PE node and the OPE node; a virtual circuit label of the context virtual circuit is determined; a final data packet to be forwarded is obtained by carrying a VPN label of the routing packet and the virtual circuit label with an initial data packet of the VPN service instance ; and the final data packet to be forwarded is forwarded to the next-hop PE node.

IPC 8 full level
H04L 45/02 (2022.01); **H04L 12/46** (2006.01); **H04L 45/50** (2022.01); **H04L 45/74** (2022.01); **H04L 45/745** (2022.01)

CPC (source: CN EP US)
H04L 12/4604 (2013.01 - EP); **H04L 12/4641** (2013.01 - CN US); **H04L 12/4662** (2013.01 - EP); **H04L 41/0895** (2022.05 - US); **H04L 45/02** (2013.01 - EP); **H04L 45/10** (2013.01 - EP US); **H04L 45/44** (2013.01 - US); **H04L 45/50** (2013.01 - CN EP US); **H04L 45/507** (2013.01 - CN EP US); **H04L 45/54** (2013.01 - EP US); **H04L 45/56** (2013.01 - US); **H04L 45/566** (2013.01 - US); **H04L 45/74** (2013.01 - EP); **H04L 45/745** (2013.01 - EP); **H04L 2012/4629** (2013.01 - EP)

Citation (search report)
• [XAI] WO 2019205836 A1 20191031 - ZTE CORP [CN]
• [A] ZHANG E ROSEN W LIN JUNIPER NETWORKS Z LI HUAWEI TECHNOLOGIES Z: "MVPN/EVPN Tunnel Aggregation with Common Labels; draft-zhang-bess-mvpn-evpn-aggregation-label-00.txt", MVPN/EVPN TUNNEL AGGREGATION WITH COMMON LABELS; DRAFT-ZZHANG-BESS-MVPN-EVPN-AGGREGATION-LABEL-00.TXT; INTERNET-DRAFT: BESS, INTERNET ENGINEERING TASK FORCE, IETF; STANDARDWORKINGDRAFT, INTERNET SOCIETY (ISOC) 4, RUE DES FALAISES CH- 1205 GENEVA, SWI, 10 February 2018 (2018-02-10), pages 1 - 12, XP015125656
• See also references of WO 2021135624A1

Designated contracting state (EPC)
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DOCDB simple family (publication)
EP 4087197 A1 20221109; EP 4087197 A4 20230517; CN 113132235 A 20210716; CN 113132235 B 20230331; US 11924094 B2 20240305; US 2023031179 A1 20230202; WO 2021135624 A1 20210708

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EP 20910954 A 20201103; CN 201911419401 A 20191231; CN 2020126168 W 20201103; US 202017790251 A 20201103